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AS Tanenbaum, M Van Steen - 2002 - Citeseer
... High Performance Networks ● Clusters and Computational **Grids** Course Outline ... Process: Key: **Computer**: Clients invoke individual servers ... IP, ATM virtual circuits Data link Responsible for transmission of packets between **nodes** that are directly connected by a physical link. ...
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... environment of Figure 1 might well first reduce within each SMP **node**, then within ... DeKalb, Ill., and a Resident Associate Guest in the Mathematics and **Computer** Science Division ... interests include techniques required to execute message passing programs in **grid** environments. ...
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... School of **Computer** Science and ... The current version also uses these services along with the new features (such as **Grid** Directory Information Services) supported by the ... clusters of computers (such as Beowulf-class Linux clusters) it is common for only the master **node** to be ...
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... longstanding assumption that software en- vironments and applications are bound to specific **computer** systems that ... The **node** configuration cost—which is on the order of seconds, or minutes for a ... long runs of **resource**- intensive applications, which are typical in a **grid** setting. ...
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D Abramson, J Giddy, L Kotler - International Parallel and Distributed ..., 2000 - Citeseer
... the file transfer commands, as well as the execution of the model on the remote **node**. ... Accordingly, it is not possible to consider the **Grid** as a single **computer** system under the **control** ... understanding of its problem domain as well as the nature of the computational **Grid** to provide ...
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... As a distributed computing system that includes processing **nodes**, storage devices, networks, software applications, and user ... and finally recover the results using a laptop or from a public **computer** of an ... in In-VIGO entails: (1) the installation of a tool in **grid**-enabled resources, (2 ...
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K Krauter, R Buyya, M ... - Software: Practice and ..., 2002 - interscience.wiley.com
... INTRODUCTION A distributed network computing (NC) system is a virtual **computer** formed by a networked set of heterogeneous machines that agree to share their local resources with each other. ... Hard QoS support is provided when all **nodes** in the **Grid** can police the SLAs ...
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... c Department of **Computer** Science, Welsh e-Science Centre, Cardiff University, Cardiff, UK. ... the **grid** and performing **resource** discovery, scheduling, dispatching jobs to remote **grid nodes**, starting and managing job execution, and gathering results back to the home **node**. ...
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K Keahey, I Foster, T Freeman, X Zhang - Scientific Programming, 2005 - IOS Press
... a Math & **Computer** Science Division, Argonne National Laboratory, Argonne, IL 60439, USA b University of ... site-provided installa- tion available as a workspace is providing **access** to **Grid** clients. ... in a relatively coarse-grained manner allocating the num- ber of **nodes** or amount ...
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Condor-G: A computation management agent for multi-institutional grids psu.edu [PDF]
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... technology that allows a user to create a tailored execution environment on a remote **node**. ... are precisely those provided by the daemon process that is run on any **computer** participating in a ... In effect, the Condor-G GlideIn mechanism uses **Grid** protocols to dynam- ically create a ...
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